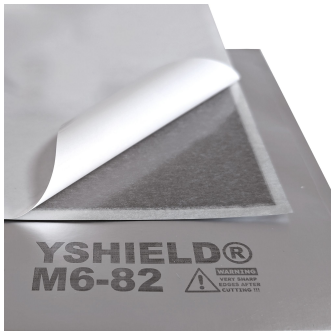
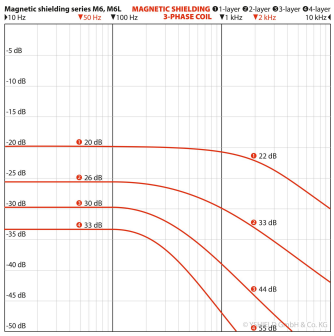
Sale: YSHIELD® M6-82 | Six-layer magnetic field shielding plate | 80x21 cm

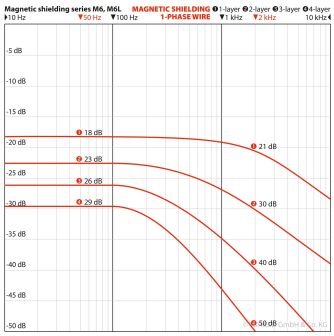
Self-adhesive with groundable aluminum surface. Can be used universally on small to very large surfaces. Very flat without overlapping. 20-33 dB shielding at 50 Hz.

YSHIELD® M6-82



YSHIELD® M6-82





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M6-82 is a flexible magnetic field shielding plate for shielding low-frequency magnetic fields, which is **laminated with a self-adhesive layer on the underside and aluminum on the top**. The M6 series is therefore very universal in its application. Tight bending radii and right-angled bends can be realized without loss of shielding attenuation. The self-adhesive layer is based on a high-quality, **low-VOC permanent acrylic adhesive** with minimal odor. If required (e.g. MRI rooms), the aluminum surface offers RF shielding of 120 dB. Single-layer processing has the best price/performance ratio; for higher magnetic flux densities, multiple layers must be used. For this product, we have **combined 6 ultra-thin shielding films** because several thin layers provide better shielding than one thick sheet.

Suitable for **small areas in the domestic environment** as well as for **large areas in construction, trade or industry**. It can also be used in cars, electric cars, vans, motorhomes and caravans.

Technical dada

- **Dimensions: 80 x 21 cm (shielding surface);** 82 x 23 cm (total product)
- Thickness: 0.6 mm
- **Shielding magnetic field (three-phase 50 Hz): Single-layer 19.5 dB (89.4 %), two-layer 25.7 dB (94.8 %), three-layer 30.2 dB (96.9 %), four-layer 32.6 dB (97.7 %)**
- Shielding magnetic field (single-phase 50 Hz): Single-layer 17.7 dB (87 %), two-layer 23.2 dB (93.1 %), three-layer 26.8 dB (95.4 %), four-layer 29.3 dB (96.6 %)
- Shielding magnetic field (static): DC consumers, earth magnetic field, permanent magnet are shielded in a range from 15 % (single layer) to 58 % (four layer).
- Corrosion resistance: Corresponds to that of aluminum
- Minimum bending radius: 20 cm
- For reasons of innovation, we do not declare ingredients and magnetic key figures. **The high-tech material has a high initial permeability and high saturation induction from 5 Hz to 50 kHz**. In addition, static magnetic fields at 0 Hz are shielded, as are electromagnetic fields up to 40 GHz.

Application

Attention: You can cut the M6 series with high-quality scissors! The cut edges are as sharp as a knife and must be protected immediately after cutting, e.g. with fabric tape! Use cut-resistant gloves when processing! It is better to plan the laying of the tiles so that you do not have to cut! For larger wall surfaces, make sure that the boards are a vapor barrier. **Application**: This product has a permanent acrylic adhesive on the back, which adheres to clean, grease-free and even surfaces. Remove the protective film and apply the panels with our FVR10 squeegee. Work carefully but do not press too hard to avoid damaging the aluminum surface. The screen surface must overlap by at least 2 cm on all panels. **Application by stapler or nailer:** If the substrate is suitable, we recommend using an electric stapler or nailer. A medium-priced electric stapler is sufficient for one layer including the overlap; for two or more layers, you will need a professional nailer. The screen surface must overlap by at least 2 cm. **Multi-layer installation**: Always install the panels staggered, the surfaces should cover underlying overlaps. **High-frequency shielding:** The electrically conductive aluminum surface has an HF shielding attenuation of 120 dB, transition points to other shielding components can be easily sealed with aluminum adhesive tape.

Grounding

When shielding magnetic fields, also pay attention to the electric fields. Earthing must be carried out to prevent the spread of electric fields. This is particularly easy with the M6 series with aluminum surface: For contacting, **stick our GSX10 or GSX50 earthing tape to the aluminum surfaces of all mounted panels**. Further components can be found under “Earthing”.

Laboratory & expert report

We have already invested in our **own professional EMV laboratory** years ago. We not only use it to create our laboratory screening reports but also to check each batch daily. Additionally, we have all our products checked by an **independent, well-respected expert**. Double checked for twice the safety. **Please find the reports above at the downloads**.